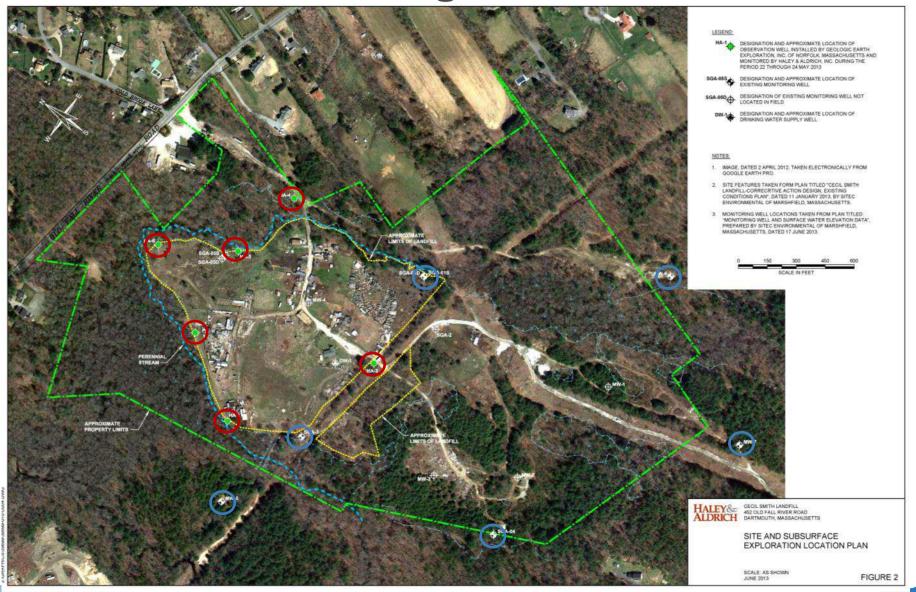
Supplemental Groundwater Evaluation

- Objective:
 - Collect updated groundwater data
 - Supplement previous EPA data (fill in the gaps)
- Scope:
 - Install and sample 6 new groundwater monitoring wells
 - Sample 7 existing groundwater monitoring wells
 - Survey well locations and elevations to help evaluate groundwater flow direction
- MassDEP approval of BWPS-45 Permit application

Groundwater Investigation Locations



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Groundwater Sampling

- Sampled wells using low flow sampling technique
 - EPA and MassDEP recommended approach
- Field filtered the samples collected for heavy metals
 - Eliminate elevated turbidity
 - More accurately predicts true groundwater condition
 - Previous 2005 EPA sampling not field filtered



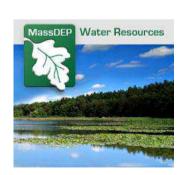
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What was Looked For

- Required MassDEP landfill indicator parameters
 - Alkalinity, chemical oxygen demand, chloride, nitrate, sulfate and total suspended solids (TSS), iron & manganese
- Volatile organic compounds (VOCs)
- Semi-volatile organic compounds (SVOCs)
- Polychlorinated biphenyls (PCBs), cyanide
- Heavy Metals (including lead, arsenic, mercury)

The Results

- No compounds above MCP standards (drinking water and surface water).
 - MCP the Massachusetts Contingency Plan or the hazardous waste cleanup regulations.
- Alkalinity, nitrate, dissolved iron & manganese and sodium
 - Select wells above secondary (taste, odor) drinking water parameters.
- SVOCs, VOCs, cyanide low concentrations in a few wells.
 - Results below applicable MCP standards.
 - No pattern of detections.
- Dissolved metals below applicable standards



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What all this Means

- No compounds above MCP standards
- Wells beyond landfill limits not impacted.
- General water quality parameters
 - Aesthetics, color, taste and odor exceed certain drinking water secondary levels. Not a health risk.
 - Consistent with and typical for areas adjacent to a construction and demolition debris landfill.
 - No drinking water wells to be located at the landfill.
- No new constituents were identified

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Flow Direction

